

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 844 129 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
07.07.1999 Bulletin 1999/27

(51) Int. Cl.⁶: B60K 23/00, B60K 17/00

(43) Date of publication A2:
27.05.1998 Bulletin 1998/22

(21) Application number: 97119744.7

(22) Date of filing: 11.11.1997

(84) Designated Contracting States:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: Shibahata, Yasuji
1-4-1 Chuo, Wako-shi, Saitama (JP)

(30) Priority: 13.11.1996 JP 30151996
13.11.1996 JP 30152096

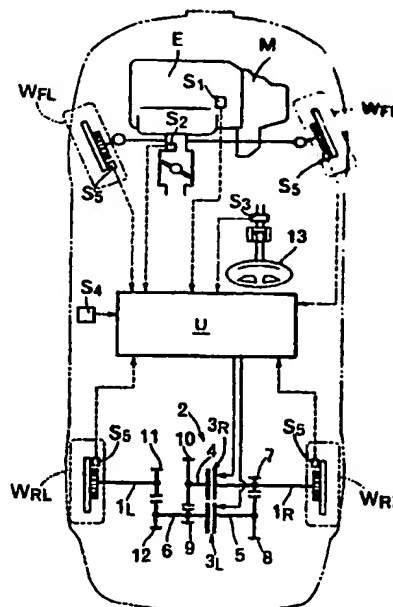
(74) Representative:
Prectel, Jörg, Dipl.-Phys. Dr. et al
Patentanwälte,
H. Weickmann, Dr. K. Fincke,
F.A. Weickmann, B. Huber,
Dr. H. Liska, Dr. J. Prectel,
Dr. B. Böhm, Dr. W. Weiss,
Kopernikusstrasse 9
81679 München (DE)

(71) Applicant:
HONDA GIKEN KOGYO KABUSHIKI KAISHA
Minato-ku, Tokyo (JP)

(54) Yaw moment control system in vehicle

(57) A yaw moment control system is provided to eliminate an under-steering tendency generated due to the insufficiency of a cornering force of front driven wheels of a vehicle. More specifically, in place of a longitudinal acceleration X_g and a lateral acceleration Y_g used for calculating the amount of torque distributed, a corrected longitudinal acceleration X_g' larger than the value directly proportional to the longitudinal acceleration X_g and a corrected lateral acceleration Y_g' larger than the value directly proportional to the lateral acceleration Y_g are used, thereby increasing the amount of torque distributed to between inner and outer wheels during turning of the vehicle. A yaw moment is generated which is directed inwards in the turning direction to prevent the under-steering tendency which is generated due to the insufficiency of the cornering force of the front wheels.

FIG. 1



EP 0 844 129 A3

FIG.5A

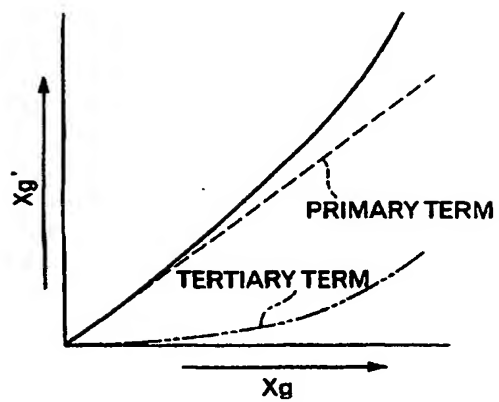
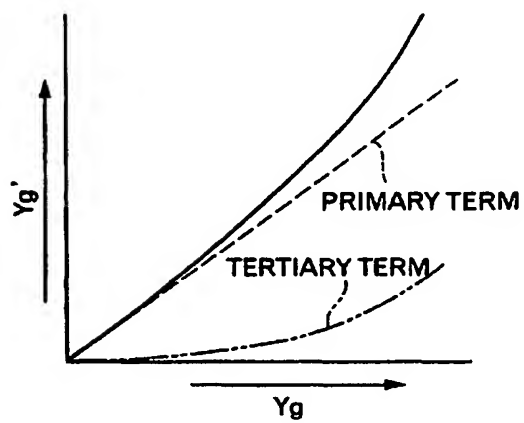


FIG.5B





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 11 9744

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	PATENT ABSTRACTS OF JAPAN vol. 095, no. 007, 31 August 1995 & JP 07 108842 A (MITSUBISHI MOTORS CORP), 25 April 1995 * abstract * & JP 07 108842 A (MITSUBISHI) 25 May 1995 * figures *	1-8	B60K23/00 B60K17/00
A	EP 0 546 733 A (MITSUBISHI MOTORS CORP) 16 June 1993 * figures 31-40 *	1-8	
D,P, A	DE 196 37 193 A (HONDA) 27 March 1997 * figure 1 *	1-8	
A	GB 2 280 157 A (FUJI HEAVY IND LTD) 25 January 1995 * figures *	1-8	
A	DE 43 33 961 A (MAZDA MOTOR) 7 April 1994 * figures *	1-8	TECHNICAL FIELDS SEARCHED (Int.Cl.6) B60T B60K
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 May 1999	Examiner Goeman, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 (03/02) (Pct/C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 97 11 9744

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-05-1999

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0546733	A	16-06-1993	JP 2848125 B	20-01-1999
			JP 5345530 A	27-12-1993
			JP 2699739 B	19-01-1998
			JP 5147450 A	15-06-1993
			DE 69222739 D	20-11-1997
			DE 69222739 T	14-05-1998
			EP 0773130 A	14-05-1997
			KR 9505360 B	23-05-1995
			US 5370588 A	06-12-1994
DE 19637193	A	27-03-1997	JP 9086203 A	31-03-1997
			JP 9123937 A	13-05-1997
			CA 2186444 A	27-03-1997
			CN 1150568 A	28-05-1997
GB 2280157	A	25-01-1995	JP 4328027 A	17-11-1992
			JP 4328028 A	17-11-1992
			DE 4213537 A	29-10-1992
			GB 2255057 A, B	28-10-1992
			US 5259476 A	09-11-1993
DE 4333961	A	07-04-1994	JP 6115370 A	26-04-1994
			JP 6115371 A	26-04-1994
			JP 6115372 A	26-04-1994
			JP 6115373 A	26-04-1994
			US 5685386 A	11-11-1997